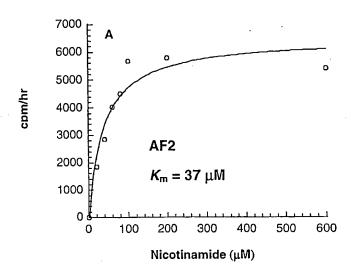
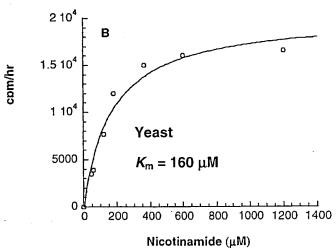
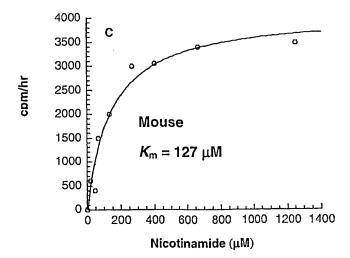
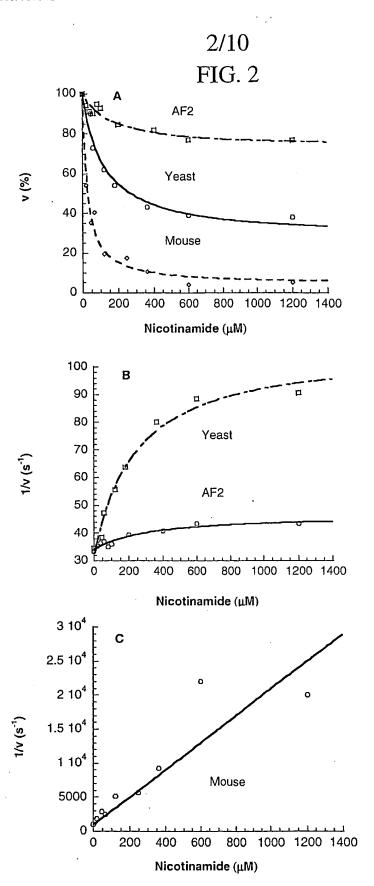
1/10 FIG. 1

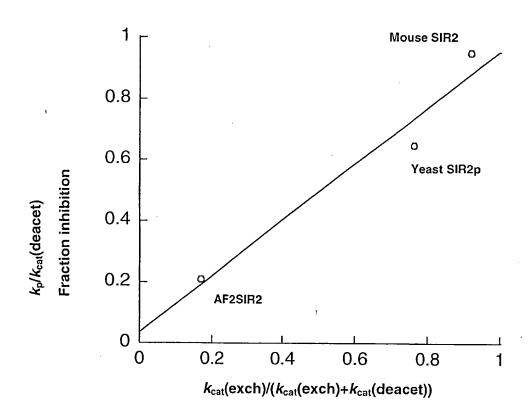




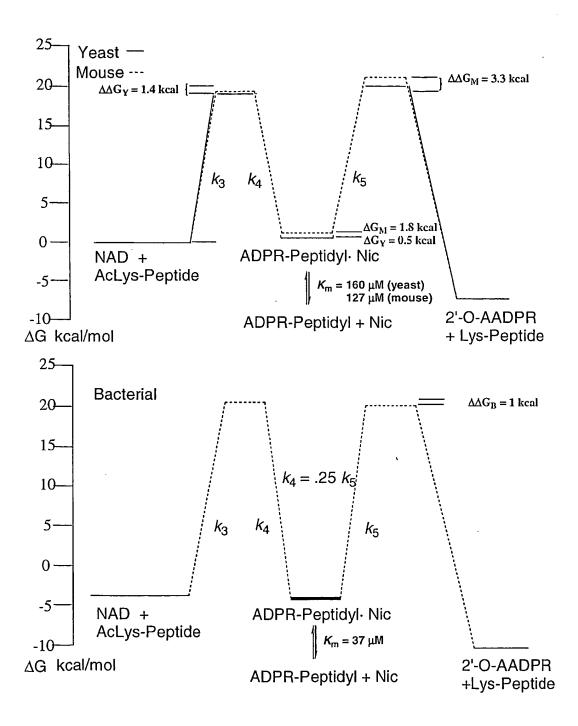




3/10 FIG. 3



4/10 FIG. 4



5/10 FIG. 5 SCHEME I

A
$$E + NAD^+ + AcLys-Protein$$
 $E \cdot NAD^+ \cdot AcLys-protein$ $E \cdot ADPR-AcLys-protein$ H_2O

E + 2'-AADPR +Lys-Protein

ADPR-Peptidyl-Intermediate

C

$$K_{eq} = k_3/k_4$$

C

 $K_{eq} = k_3/k_4$
 $K_{eq} = k_3/k_4$

6/10 FIG. 6

a
$$AMP$$

NAM

NAM

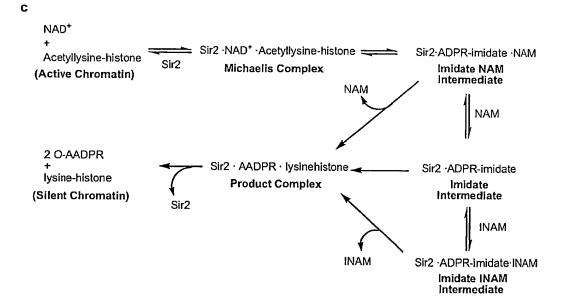
NAM

NAM

NAM

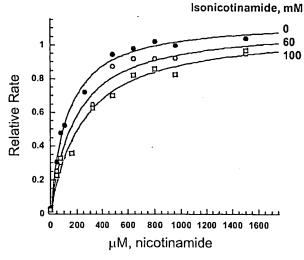
Acetyl Lysine (INHIBITION)

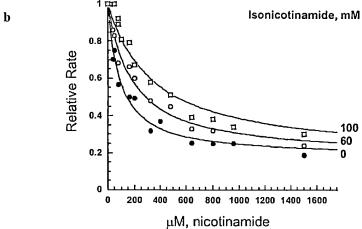
Peptidyl-Imidate Intermediate

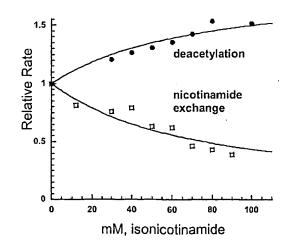


a

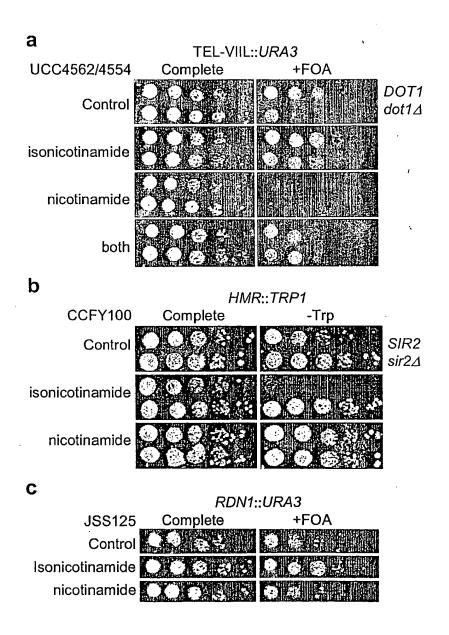
7/10 FIG. 7



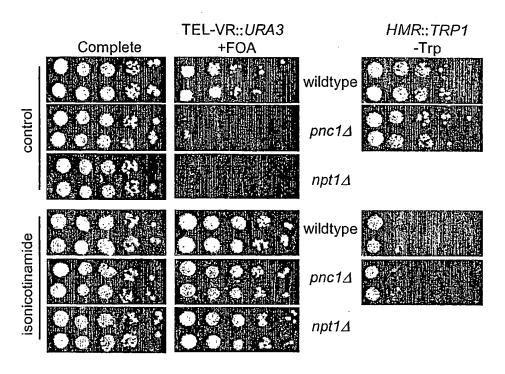




8/10 FIG. 8



9/10 FIG. 9



10/10 FIG. 10

